



TufBuild PS

Corrosion Protection Priming System

Uses

Provides a protecting environment around steel reinforcement against corrosion by restoring the alkalinity of the surroundings

Typical Applications & Advantages

- Excellent bond and compatibility with concrete substrates.
- Provides alkaline environment to prevent further corrosion.
- Non toxic priming system.
- Factory controlled prepackaged system.
- Suitable for use with all cement based systems.
- Simple and easy to use, no skilled labour.
- Excellent adhesion to steel reinforcement.
- For bonding any cement based system to cementitious substrates.
- Passivating and protecting steel reinforcement.

Product Description

TufBuild PS is a specially formulated priming and bonding slurry for use with **TufBuild** cementitious repair mortars. **TufBuild PS** will ensure repairs are permanently bonded to the concrete substrate whilst providing a protective environment around reinforcing steel. **TufBuild PS** helps to restore the alkaline environment required to prevent corrosion of reinforcing steel. **TufBuild PS** is comprised of specially selected hydraulic cements, corrosion inhibitors and polymeric dispersions. A two component system supplied as cementitious powder and latex.

Typical Properties

Specific gravity	: 1.75 @ 25±2°C
Appearance	: Dark grey slurry

Technical Support

GIC provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance.

Instructions for Use

Surface Preparation: It is essential that the concrete to be bonded is clean, uncontaminated and structurally sound. All steel corrosion

deposits and loose concrete must be removed from the area prior to treatment. The area to be repaired should be clearly marked out. The perimeter should be saw cut, keeping edges as square as possible. Un-sound or deteriorated concrete should be removed using scabblers or needle guns.

Care should be taken at this time not to crack or damage structurally sound, concrete in the surrounding area. The minimum depth for cementitious repairs should be 10 mm. If further corrosion of steel or deteriorated concrete exists beyond the marked areas, extend breaking out to expose clean steel and sound concrete. The concrete around the back of the reinforcement must be removed to allow complete protection. All debris such as rust deposits, dust and loose aggregate must be removed by compressed air. Reinforcement should be cleaned by abrasive blasting or wire brushing as appropriate.

Priming: Only mix **TufBuild PS** primer once all substrate preparation is completed. Mix the two components slowly together adding the latex to the powder. Mix until a smooth, lump free consistency is achieved. Do not over mix or re-temper.

Brush the primer hard into the pitted surface of the reinforcement. Ensure complete coverage is obtained especially in inaccessible areas. Ensure no pin holes. This should then be allowed to dry. The concrete surface should then be thoroughly soaked with clean water; a saturated surface dry situation is ideal. Re-apply the primer to the reinforcement and also now apply to the concrete. Work the primer into the concrete surface to ensure complete coverage.

Watch Point

Never apply **TufBuild PS** mortar onto dry primer. If the primer is allowed to dry it must be over-coated.

Coverage

Consumption rates vary according to the surface profile of the concrete substrate and diameter of the reinforcement in use. The following however provides a useful guide for estimation purposes;





Steel 100 Gms/ LM- 16mm rebar
Concrete approx. 850 Gms/ m²

Packaging & Storage

TufBuild PS is available in 17.5 kg units and it has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

Health & Safety Precautions

TufBuild PS does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

For further information refer to the Material Safety Data Sheet available for this product.

Important note

GIC endeavors to ensure that the technical information contained herein is true, accurate and represents our best knowledge and experience. No warranty is given or implied, as GIC has no control over the conditions of use and the competence of any labor involved in the application are beyond our control.

As all GIC technical data sheets are updated on a regular basis it is the customer's responsibility to check that the product is suitable for the intended application, and that the actual conditions of use are in accordance with those recommended.

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